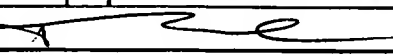


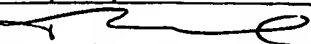
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Applicant Robert A. NORWOOD et al.							
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Examiner Initial*		Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
TSK ↓		2,340,155	04/11/44	Denison et al.			
		3,197,436	07/27/65	Block et al.			
		3,725,574	09/27/66	Saraceno et al.			
		3,432,532	03/11/69	King			
		3,997,853	12/14/76	Morris et al.			
		4,037,172	07/19/77	Filipescu et al.			
		4,139,342	02/13/79	Sheldrake et al.			
		4,272,733	06/09/81	Walling et al.			
		RE 31,057	10/12/82	Morris et al.			
		4,780,877	10/25/88	Snitzer			
	4,811,349	03/07/89	Payne et al.				
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		Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
TSK ↓		0 556 005 A1	8/93	Europe			
		PCT/EP92/02913	7/93	PCT			
		EP 0 989 693	3/29/00	Europe			
		EP 0 775 673	5/28/97	Europe			
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TSK ↓		"Preparation and Fluorescence Properties of Sm-Containing Copolymers," Zhang et al., Department of Materials Science and Engineering, University of Science and Technology of China, Hefe 230026, October 1992, Vol. 6, No. 5, pp. 435-438.					
		"Synthesis and Crystal Structures of (Pr[C ₂ H ₅ O] ₂ POO] ₃) _n ," Huang et al., Chinese Chemical Letters, Vol. 3, No. 11, pp. 947-950, 1992.					
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TSR ↓		4,800,295	08/22/89	Byer et al.			
		5,005,175	04/04/91	Desurvire et al.			
		5,032,315	07/16/91	Hayden et al.			
		5,093,147	03/03/92	Andrus et al.			
		5,105,434	04/14/92	Krupke et al.			
		5,140,658	08/18/92	Sunshine			
		5,282,260	01/25/94	Buchal et al.			
		5,287,217	02/15/94	Cockroft			
		5,301,054	04/05/94	Huber et al.			
		5,379,149	01/03/95	Snitzer et al.			
	5,524,016	06/04/96	Pappalardo et al.				
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TSR ↓		"A Proposal for Positive Cooperativity in Anion-Cation Binding in Yttrium and Lutetium Complexes Based on o-Amino-Substituted Phenolate Ligands on the Way to Coordination Polymers by Self-Assembly. Molecular Structures of [ClLu(OAr)3]Na (X-ray) and [ClY(OAr)3Y(OAr)3Na (X-ray and 89Y-NMR): Hogerheide et al; Inorganic Chemistry, Vol. 35, No. 5, 1996, 35, 1185-1194.					
		"Inorganic Coordination Polymer Chromium (III) TrisOphosphinates), Nannelli et al., Technological Center, Pennwalt Corporation, John Wiley & Sons, Inc., 1973, 2691-2701.					
		"Luminescence and IR Spectroscopy of Europium (III) Complexes with New Organophosphorus Ligands," Bel'yukova et al., A.V. Bogat'skii Physical Chemistry Institute, Academy of Sciences of the Ukrainian SSR, Institute of Radio Engineering and Electronics, Academy of Sciences of the USSR. Translated from Koordinatsionnaya Khimiya, Vol. 15, No. 6, pp. 848-852, June, 1989. Original article submitted June 16, 1987.					
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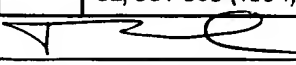
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TSK		5,555,342	09/10/96	Buchal et al.			
		5,694,500	12/02/97	Page et al.			
		5,726,796	03/10/98	Regener et al.			
		5,364,019	11/1994	Dexter et al.			
		5,338,607	08/16/1994	Kawamoto et al.			
		4,962,995	10/1990	Andrews et al.			
		4,225,459	09/1980	Faustick et al.			
		5,755,998	05/1998	Yamazak et al.			
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TSK		5-238775	09/1993	Japan			
		59-116149	07/1984	Japan			
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TSK	1	"Synthesis, Characterization and Fluorescence Properties of Europium(3+) and terbium (3+) Bipyridyl Complex Containing Ion Polymers," Zhu et al., Polymer Research Institute, Polytechnic of New York, pp. 78-83.					
		"Synthesis and Optical Properties of New Inorganic Phosphate Matrices," Lou et al., Journal of Sol-Gel Science and Technology, 2, 787-789 (1994)					
TSK	1	"Crystal Structure of Tris(dimethoxyphosphato) Lanthanum (III) Coordination Polymer {La[PO ₂ (OCH ₃) ₂] ₃ } _n ," Fu et al., Chines J. Struct. Chem., Vol. 13, No. 1, pp. 24-47.					
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		"Synthesis, Characterization and Applications of Rare Earth Metal ion Chelating Polymers," Okamoto et al., Polytechnic Institute of New York, Department of Chemistry and Polymer Research Institute, pp. 425-450.					
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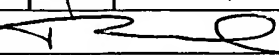
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TDL		3,440,186	4/69	Rose			
		3,457,195	7/69	Block et al.			
		3,654,189	4/72	Venezky et al.			
V		3,660,314	5/72	Vandenberg			
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TDL		"Rare-Earth-Metal-Containing Polymers, 5, Synthesis, Characterization, and Fluorescence Properties of Eu ³⁺ -Polymer Complexes Containing Carboxylbenzoyl and Carboxynaphthoyl Ligands," Ueba et al., Journal of Polymer Science, Polymer Chemistry Edition, Vol. 20, 1271-1278 (1982).					
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		"Synthesis and Characterization of Rare Earth Metal-Containing Polymers, I. Fluorescent Properties of Ionomers Containing Dy ³⁺ , Er ³⁺ , Eu ³⁺ , and Sm ³⁺ , Banks et al., Journal of Applied Polymer Science, Vol. 25, 359-368 (1980).					
V		"Solid Polymers Doped with Rare Earth Metal Compounds, III. Formation and Stability of Macromolecular Complexes Comprising Neodymium Nitrate and Dipivaloylmethane in Poly(Ethylene Oxide)," Twomey et al. Journal of Polymer Science: Part B: Polymer Physics, Vol. 32, 551-560 (1984).					
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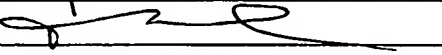
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TSC		4,078,010	3/78	Kramer			
		5,614,596	3/97	Laine et al.			
		5,690,863	11/97	Schuman			
↓		5,759,448	6/98	Katono et al.			
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TSC		"Inorganic Coordination Polymers, XVIII, Observations on Brittle and Flexible Films of [Cr(OP(CH ₃)(C ₆ H ₅)O[2(OP(C ₈ H ₁₇) ₂ O)] _x]" Nannelli et al., Journal of Polymer Science: Polymer Chemistry Edition, Vol. 13, 2849-2856 (1975)					
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↓		"Effects of Chromophore Dissociation on the Optical Properties of Rare-Earth-Doped Polymers," Gao et al., APPLIED OPTICS, Vol. 37, No. 30/20, October 1998, pp. 7100-7106.					
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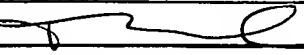
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TDR		5,822,489	10/98	Hale	1	1	
↓		6,292,292	9/01	Garito et al.	1	1	
↓		6,538,805	3/03	Norwood et al.	1	1	
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DR		"Systems Evaluation of an ER3+-Doped Planar Waveguide Amplifier," Nykolak et al., IEEE Technology Letters, Vol. 5, No. 10, October 1993, pp. 1185-1187.					
↓		"Erbium-Doped Glasses for Fiber Amplifiers at 1500 nm," William J. Miniscalco, Journal of Lightwave Technology, Vol. 9, No. 2, February 1991, pp. 234-250					
↓		"Effects of Concentration on the Performance of Erbium-Doped Fiber Amplifiers," Myslinski et al., Journal of Lightwave Technology, Vol. 15, No. 1, January 1997, pp. 112-120					
↓		"Performance of High Concentration Erbium-Doped Fiber Amplifiers," Myslinski et al., IEEE Photonics Technology Letters, Vol. 11, No. 8, August 1999, pp. 973-975.					
↓		"All Light Now Fibre Amplifiers and Their Impact on Telecoms," IEE Review, January 1991, pp. 35-39					
↓		"Fibre Amplifier Comes Ashore," Dettmer, IEE Review May 1994.					
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↓		"Inorganic Coordination Polymers—XIII[1]. The Preparation and Characterization of Some μ -Iodo-Bis(μ -Phosphinato)-Chromium(III) Polymers," T.D. Gillman et al., J. inorg. nucl. Chem. 1973, Vol. 35, pp. 4053-4059.					
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TJC		"Inorganic Coordination Polymers. XI. A New Family of Chromium (III) Bis(phosphinate) Polymers, [Cr(OH)(OPRR'O) ₂] _x , P. Nannelli et al., Journal of Polymer Science: Part A-1, Vol. 9, 3027-3038 (1971).					
↓		"Disassociation Constants for Polyfluoro of Phosphorus in Various Media," G. Matveeva et al., Akad. Nauk, SSR. Ser. Khim., 1982, 1491, pp. 1329-1335.					
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